
United Space Alliance, LLC Windchill As-Built Highlights

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Process Attributes

- **Work Order execution data from Solumina As Worked BOM (As-Built) in Solumina (Slide 2) sent to Windchill**
- **Windchill receives As Worked BOM data and 'marries' the Solumina execution data to the Part Instance/Product Structure/As-Design (Slide 3 As-Design and Slide 4 & 5 As-Built)**
- **Manage the As-Built to As-Design delta's via the interface feedback and Part Instance Attributes (Slide 6) including Work Order data and any CM comments**
- **Produce an As-Built to As-Design report that also includes all Part Instance Attribute data (no screenshot as this is still in development) for the primary purpose of Acceptance Data Package documentation to the customer**
- **Utilize Windchill and Solumina 'Out of the Box' functionality**

Solumina As-Worked BOM Report

TabReport											
As Worked BOM for Part No PDMTRTENDITEM3, Serial No 505, Lot No 1-0100221											
Level	Oper Iteration	Part No	Part Chg	Serial No	Lot No	Qty	Part Title	Ref Des	Order No	Part Action	Removed?
1	1	PDMBUYITEM3-0	1	214	1-0100219	1	DENAS MAKE ITEM 3.0	N/A	1-0100221	USE	N
2	1	PDMBUYITEM3-0-0	1	N/A	042011-3	3	DENAS COMPONENT 3.0.0	N/A	1-0100219	USE	N
2	1	PDMBUYITEM3-0-1	1	N/A	042011-4	3	DENAS COMPONENT 3.0.1	N/A	1-0100219	USE	N
2	1	PDMBUYITEM3-0-2	1	N/A	042011-1	3	DENAS COMPONENT 3.0.2	N/A	1-0100219	USE	N
2	1	PDMBUYITEM3-0-3	1	N/A	042011-2	3	DENAS COMPONENT 3.0.3	N/A	1-0100219	USE	N
2	1	PDMBUYITEM3-0-4	1	N/A	042011-5	3	DENAS COMPONENT 3.0.4	N/A	1-0100219	USE	N
2	1	PDMBUYITEM3-0-5	1	150	1-0100218	1	DENAS COMPONENT 3.0.5	N/A	1-0100219	USE	N
3	1	PDMBUYITEM3-0-5-2	1	N/A	042011-1	2	DENAS COMPONENT 3.0.5.2	N/A	1-0100218	USE	N
3	1	PDMBUYITEM3-0-5-3	1	N/A	042011-2	4	DENAS COMPONENT 3.0.5.3	N/A	1-0100218	USE	N
3	1	PDMBUYITEM3-0-5-2	1	N/A	042011-1	2	DENAS COMPONENT 3.0.5.2	N/A	1-0100218	USE	N
2	1	PDMBUYITEM3-0-5	1	151	1-0100218	1	DENAS COMPONENT 3.0.5	N/A	1-0100219	USE	N
3	1	PDMBUYITEM3-0-5-2	1	N/A	042011-1	2	DENAS COMPONENT 3.0.5.2	N/A	1-0100218	USE	N
3	1	PDMBUYITEM3-0-5-3	1	N/A	042011-2	4	DENAS COMPONENT 3.0.5.3	N/A	1-0100218	USE	N
3	1	PDMBUYITEM3-0-5-2	1	N/A	042011-1	2	DENAS COMPONENT 3.0.5.2	N/A	1-0100218	USE	N
2	1	PDMBUYITEM3-0-5	1	152	1-0100218	1	DENAS COMPONENT 3.0.5	N/A	1-0100219	USE	N
3	1	PDMBUYITEM3-0-5-2	1	N/A	042011-1	2	DENAS COMPONENT 3.0.5.2	N/A	1-0100218	USE	N
3	1	PDMBUYITEM3-0-5-3	1	N/A	042011-2	4	DENAS COMPONENT 3.0.5.3	N/A	1-0100218	USE	N
3	1	PDMBUYITEM3-0-5-2	1	N/A	042011-1	2	DENAS COMPONENT 3.0.5.2	N/A	1-0100218	USE	N
1	1	PDMBUYITEM3-0	1	215	1-0100219	1	DENAS MAKE ITEM 3.0	N/A	1-0100221	USE	N
2	1	PDMBUYITEM3-0-0	1	N/A	042011-3	3	DENAS COMPONENT 3.0.0	N/A	1-0100219	USE	N
2	1	PDMBUYITEM3-0-1	1	N/A	042011-4	3	DENAS COMPONENT 3.0.1	N/A	1-0100219	USE	N
2	1	PDMBUYITEM3-0-2	1	N/A	042011-1	3	DENAS COMPONENT 3.0.2	N/A	1-0100219	USE	N
2	1	PDMBUYITEM3-0-3	1	N/A	042011-2	3	DENAS COMPONENT 3.0.3	N/A	1-0100219	USE	N
2	1	PDMBUYITEM3-0-4	1	N/A	042011-5	3	DENAS COMPONENT 3.0.4	N/A	1-0100219	USE	N
2	1	PDMBUYITEM3-0-5	1	153	1-0100218	1	DENAS COMPONENT 3.0.5	N/A	1-0100219	USE	N
3	1	PDMBUYITEM3-0-5-2	1	N/A	042011-1	2	DENAS COMPONENT 3.0.5.2	N/A	1-0100218	USE	N
3	1	PDMBUYITEM3-0-5-3	1	N/A	042011-2	4	DENAS COMPONENT 3.0.5.3	N/A	1-0100218	USE	N
3	1	PDMBUYITEM3-0-5-2	1	N/A	042011-1	2	DENAS COMPONENT 3.0.5.2	N/A	1-0100218	USE	N
2	1	PDMBUYITEM3-0-5	1	154	1-0100218	1	DENAS COMPONENT 3.0.5	N/A	1-0100219	USE	N
3	1	PDMBUYITEM3-0-5-2	1	N/A	042011-1	2	DENAS COMPONENT 3.0.5.2	N/A	1-0100218	USE	N
3	1	PDMBUYITEM3-0-5-3	1	N/A	042011-2	4	DENAS COMPONENT 3.0.5.3	N/A	1-0100218	USE	N
3	1	PDMBUYITEM3-0-5-2	1	N/A	042011-1	2	DENAS COMPONENT 3.0.5.2	N/A	1-0100218	USE	N
2	1	PDMBUYITEM3-0-5	1	155	1-0100218	1	DENAS COMPONENT 3.0.5	N/A	1-0100219	USE	N
3	1	PDMBUYITEM3-0-5-2	1	N/A	042011-1	2	DENAS COMPONENT 3.0.5.2	N/A	1-0100218	USE	N
3	1	PDMBUYITEM3-0-5-3	1	N/A	042011-2	4	DENAS COMPONENT 3.0.5.3	N/A	1-0100218	USE	N
3	1	PDMBUYITEM3-0-5-2	1	N/A	042011-1	2	DENAS COMPONENT 3.0.5.2	N/A	1-0100218	USE	N

Windchill As-Designed

Multi-Level Bill of Materials

Target Part: [PDMTRTENDITEM3](#), [Ground Operations](#), [A.2 \(Design\)](#)
















Configuration: Latest: View=Design, Working=True, Applied to Top=False, Use Default=False

Executed By: RICHMODM

Time Of Execution: 2011-06-08 08:12:56 EDT

(15 total objects)

?

Number	Organization ID	Version	Name	Line #	Find #	Quantity	State	Ref Designator
0  PDMTRTENDITEM3	GO	A.2 (Design)	DENAS END ITEM 3				Released	
1  PDMBUYITEM3-0	GO	A.1 (Design)	DENAS MAKE ITEM 3.0			2 EA	Released	
2  PDMBUYITEM3-0-0	GO	A.1 (Design)	DENAS COMPONENT 3.0.0			3 EA	Released	
2  PDMBUYITEM3-0-1	GO	A.1 (Design)	DENAS COMPONENT 3.0.1			3 EA	Released	
2  PDMBUYITEM3-0-2	GO	A.1 (Design)	DENAS COMPONENT 3.0.2			3 EA	Released	
2  PDMBUYITEM3-0-3	GO	A.1 (Design)	DENAS COMPONENT 3.0.3			3 EA	Released	
2  PDMBUYITEM3-0-4	GO	A.1 (Design)	DENAS COMPONENT 3.0.4			3 EA	Released	
2  PDMBUYITEM3-0-5	GO	A.1 (Design)	DENAS COMPONENT 3.0.5			3 EA	Released	
3  PDMBUYITEM3-0-5-1	GO	A.1 (Design)	DENAS COMPONENT 3.0.5.1			4 EA	Released	
3  PDMBUYITEM3-0-5-2	GO	A.1 (Design)	DENAS COMPONENT 3.0.5.2			4 EA	Released	
3  PDMBUYITEM3-0-5-3	GO	A.1 (Design)	DENAS COMPONENT 3.0.5.3			4 EA	Released	
1  PDMTRTMAKEITEM1-1	GO	A.1 (Design)	DENAS MAKE ITEM 1.1			2 EA	Released	
2  PDMTRTCOMP1-1-0	GO	A.1 (Design)	DENAS COMPONENT 1.1.0			3 EA	Released	
2  PDMTRTCOMP1-1-1	GO	A.1 (Design)	DENAS COMPONENT 1.1.1			3 EA	Released	
2  PDMTRTCOMP1-1-2	GO	A.1 (Design)	DENAS COMPONENT 1.1.2			3 EA	Released	

Windchill As-Built (Part Instance header data)

The screenshot displays the Windchill As-Built interface. At the top, there is a navigation bar with links: Home, Program, Product, Project, Change, Library, and Organization. Below this is a secondary navigation bar with links: Libraries, Details, Folders, Network, Team, Assignments, Change Monitor, Discussions, Templates, Reports, and Utilities. The main content area shows the 'Part Instance - 505' header. To the right of the header, the state is 'In Work'. The part instance details include: Base Part Number: [PDMRTENDITEM3](#), Base Part Name: DENAS END ITEM 3, Base Part Version: A.1, Organization ID: [GO](#), Configuration Name: [DENAS END ITEM 3 - 505](#), State: In Work - Released - Obsolete, Last Modified: 2011-04-20 18:36 EDT, Estimated Incorporation Date, Start Incorporation Date, End Incorporation Date, Traced By: Serial Number, and a link to [More Attributes](#). To the right of the text is a small image placeholder with a broken image icon. At the bottom of the main content area, there is a toolbar with icons for viewing, editing, and deleting. The bottom navigation bar includes links: Structure, General, Related Objects, History, and Collaboration.

Windchill

Event Manager | Clipboard | Help | E-mail Page | Hot Links | Copy Page
Recently Accessed | Search:

Home Program Product Project Change Library Organization
Libraries Details Folders Network Team Assignments Change Monitor Discussions Templates Reports Utilities

Library: THROTTLE

Actions Part Instance - 505, - State: In Work ?

Base Part Number: [PDMRTENDITEM3](#)
Base Part Name: DENAS END ITEM 3
Base Part Version: A.1
Organization ID: [GO](#)
Configuration Name: [DENAS END ITEM 3 - 505](#)
State: In Work - Released - Obsolete
Last Modified: 2011-04-20 18:36 EDT
Estimated Incorporation Date:
Start Incorporation Date:
End Incorporation Date:
Traced By: Serial Number
[More Attributes](#)

Structure General Related Objects History Collaboration

Windchill As-Built (Part Instance Expanded View)

Change Configuration to:

Related Reports:

Current Configuration: Latest: Applied to Top=False, Use Default=False

Current View:

Product Structure									
<input type="button" value="Copy"/> <input type="button" value="Add to Project"/> <input type="button" value="Expand One"/> <input type="button" value="Expand All"/> <input type="button" value="Collapse"/> <input type="button" value="Show Documents"/> <input type="button" value="Hide Documents"/> <input type="button" value="Show Replacements"/> <input type="button" value="Hide Replacements"/> <input type="button" value="Visual Navigation"/> <input type="button" value="Reset"/>									
Number	Name	Part Instance	Default Trace Code	Trace Code	Quantity	Source	Mfg Id	Mfg Item Id	LM Trace Code
<input checked="" type="checkbox"/> PDMTRTENDITEM3	DENAS END ITEM 3	505	Serial Number			Make	DENA	DENAS END ITEM 3	None
<input checked="" type="checkbox"/> PDMBUYITEM3-0	DENAS MAKE ITEM 3.0	215	Serial Number	Serial Number	1 EA	Make	DENA	DENAS MAKE ITEM 3.0	None
<input checked="" type="checkbox"/> PDMBUYITEM3-0-0	DENAS COMPONENT 3.0.0	042011-3	Lot	Lot	1 EA	Buy	DENA	DENAS COMPONENT 3.0.0	None
<input checked="" type="checkbox"/> PDMBUYITEM3-0-0	DENAS COMPONENT 3.0.0	042011-3	Lot	Lot	1 EA	Buy	DENA	DENAS COMPONENT 3.0.0	None
<input checked="" type="checkbox"/> PDMBUYITEM3-0-0	DENAS COMPONENT 3.0.0	042011-3	Lot	Lot	1 EA	Buy	DENA	DENAS COMPONENT 3.0.0	None
<input checked="" type="checkbox"/> PDMBUYITEM3-0-1	DENAS COMPONENT 3.0.1	042011-4	Lot	Lot	1 EA	Buy	DENA	DENAS COMPONENT 3.0.1	None
<input checked="" type="checkbox"/> PDMBUYITEM3-0-1	DENAS COMPONENT 3.0.1	042011-4	Lot	Lot	1 EA	Buy	DENA	DENAS COMPONENT 3.0.1	None
<input checked="" type="checkbox"/> PDMBUYITEM3-0-1	DENAS COMPONENT 3.0.1	042011-4	Lot	Lot	1 EA	Buy	DENA	DENAS COMPONENT 3.0.1	None
<input checked="" type="checkbox"/> PDMBUYITEM3-0-2	DENAS COMPONENT 3.0.2	042011-1	Lot	Lot	1 EA	Buy	DENA	DENAS COMPONENT 3.0.2	None
<input checked="" type="checkbox"/> PDMBUYITEM3-0-2	DENAS COMPONENT 3.0.2	042011-1	Lot	Lot	1 EA	Buy	DENA	DENAS COMPONENT 3.0.2	None
<input checked="" type="checkbox"/> PDMBUYITEM3-0-2	DENAS COMPONENT 3.0.2	042011-1	Lot	Lot	1 EA	Buy	DENA	DENAS COMPONENT 3.0.2	None
<input checked="" type="checkbox"/> PDMBUYITEM3-0-3	DENAS COMPONENT 3.0.3	042011-2	Lot	Lot	1 EA	Buy	DENA	DENAS COMPONENT 3.0.3	None
<input checked="" type="checkbox"/> PDMBUYITEM3-0-3	DENAS COMPONENT 3.0.3	042011-2	Lot	Lot	1 EA	Buy	DENA	DENAS COMPONENT 3.0.3	None
<input checked="" type="checkbox"/> PDMBUYITEM3-0-3	DENAS COMPONENT 3.0.3	042011-2	Lot	Lot	1 EA	Buy	DENA	DENAS COMPONENT 3.0.3	None
<input checked="" type="checkbox"/> PDMBUYITEM3-0-4	DENAS COMPONENT 3.0.4	042011-5	Lot	Lot	1 EA	Buy	DENA	DENAS COMPONENT 3.0.4	None
<input checked="" type="checkbox"/> PDMBUYITEM3-0-4	DENAS COMPONENT 3.0.4	042011-5	Lot	Lot	1 EA	Buy	DENA	DENAS COMPONENT 3.0.4	None
<input checked="" type="checkbox"/> PDMBUYITEM3-0-4	DENAS COMPONENT 3.0.4	042011-5	Lot	Lot	1 EA	Buy	DENA	DENAS COMPONENT 3.0.4	None
<input checked="" type="checkbox"/> PDMBUYITEM3-0-5	DENAS COMPONENT 3.0.5	153	Serial Number	Serial Number	1 EA	Make	DENA	DENAS COMPONENT 3.0.5	None
<input checked="" type="checkbox"/> PDMBUYITEM3-0-5-1	DENAS COMPONENT 3.0.5.1	NOT_USED	Lot	Lot	1 EA	Buy	DENA	DENAS COMPONENT 3.0.5.1	None
<input checked="" type="checkbox"/> PDMBUYITEM3-0-5-1	DENAS COMPONENT 3.0.5.1	NOT_USED	Lot	Lot	1 EA	Buy	DENA	DENAS COMPONENT 3.0.5.1	None
<input checked="" type="checkbox"/> PDMBUYITEM3-0-5-1	DENAS COMPONENT 3.0.5.1	NOT_USED	Lot	Lot	1 EA	Buy	DENA	DENAS COMPONENT 3.0.5.1	None
<input checked="" type="checkbox"/> PDMBUYITEM3-0-5-1	DENAS COMPONENT 3.0.5.1	NOT_USED	Lot	Lot	1 EA	Buy	DENA	DENAS COMPONENT 3.0.5.1	None
<input checked="" type="checkbox"/> PDMBUYITEM3-0-5-2	DENAS COMPONENT 3.0.5.2	042011-1	Lot	Lot	1 EA	Buy	DENA	DENAS COMPONENT 3.0.5.2	None
<input checked="" type="checkbox"/> PDMBUYITEM3-0-5-2	DENAS COMPONENT 3.0.5.2	042011-1	Lot	Lot	1 EA	Buy	DENA	DENAS COMPONENT 3.0.5.2	None
<input checked="" type="checkbox"/> PDMBUYITEM3-0-5-2	DENAS COMPONENT 3.0.5.2	042011-1	Lot	Lot	1 EA	Buy	DENA	DENAS COMPONENT 3.0.5.2	None
<input checked="" type="checkbox"/> PDMBUYITEM3-0-5-2	DENAS COMPONENT 3.0.5.2	042011-1	Lot	Lot	1 EA	Buy	DENA	DENAS COMPONENT 3.0.5.2	None
<input checked="" type="checkbox"/> PDMBUYITEM3-0-5-3	DENAS COMPONENT 3.0.5.3	042011-2	Lot	Lot	1 EA	Buy	DENA	DENAS COMPONENT 3.0.5.3	None
<input checked="" type="checkbox"/> PDMBUYITEM3-0-5-3	DENAS COMPONENT 3.0.5.3	042011-2	Lot	Lot	1 EA	Buy	DENA	DENAS COMPONENT 3.0.5.3	None
<input checked="" type="checkbox"/> PDMBUYITEM3-0-5-3	DENAS COMPONENT 3.0.5.3	042011-2	Lot	Lot	1 EA	Buy	DENA	DENAS COMPONENT 3.0.5.3	None
<input checked="" type="checkbox"/> PDMBUYITEM3-0-5-3	DENAS COMPONENT 3.0.5.3	042011-2	Lot	Lot	1 EA	Buy	DENA	DENAS COMPONENT 3.0.5.3	None
<input checked="" type="checkbox"/> PDMBUYITEM3-0-5	DENAS COMPONENT 3.0.5	154	Serial Number	Serial Number	1 EA	Make	DENA	DENAS COMPONENT 3.0.5	None
<input checked="" type="checkbox"/> PDMBUYITEM3-0-5-1	DENAS COMPONENT 3.0.5.1	NOT_USED	Lot	Lot	1 EA	Buy	DENA	DENAS COMPONENT 3.0.5.1	None

Windchill As-Built (Part Instance Attribute Data)

Windchill

Event Manager | Clipboard | Help | E-mail Page | Hot Links | Copy Page
Recently Accessed | Search:

Home Program Product Project Change Library Organization

Libraries Details Folders Network Team Assignments Change Monitor Discussions Templates Reports Utilities

Library: THROTTLE

Actions **Part Instance - NOT_USED, -** State: In Work ?

Base Part Number: [PDMBUYITEM3-0-5-1](#)
 Base Part Name: DENAS COMPONENT 3.0.5.1
 Base Part Version: A.1
 Organization ID: [GO](#)
 Configuration Name: [DENAS.COM_NOT_USED](#)
 State: In Work - Released - Obsolete
 Last Modified: 2011-06-08 12:42 EDT
 Estimated Incorporation Date:
 Start Incorporation Date:
 End Incorporation Date:
 Traced By: Lot
[More Attributes](#)

Structure General Related Objects History Collaboration

Attributes (19 total objects) ?

Name	Value
Lot Number	NOT_USED
Manufacturer ID	
Revision	-
Estimated Incorporation Date	
Start Incorporation Date	
End Incorporation Date	
Part Configuration Name	DENAS COMPONENT 3.0.5.1 - NOT_USED
Part Configuration Description	DENAS COMPONENT 3.0.5.1 - NOT_USED
Container Context	THROTTLE
Team Name	
Lifecycle State	In Work - Released - Obsolete
Created Date	2011-06-08 12:42 EDT
Created By	wcadmin
Last Modified	2011-06-08 12:42 EDT
Updated By	Richmond_Dena M
CM Acceptance Data	Drawing calls out part on an as-needed/as-required basis and was not needed for this build - DMR
Workorder Date	2011-05-02T13:24:47.000-04:00
Workorder Number	1-0100227
Workorder User	USAFLRICHMODM1

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